T1/FT1 Integrated Access Device

Total Access® 750

A low-cost integrated access device which allows service providers to offer combined voice and data traffic over a single T1 terminating at a customer's premises. Offers seven slots for a user to combine a variety of voice and data services, including 24 analog voice (FXS/FX0) circuits, Nx56/64 Data, Fractional T1, DDS and ISDN. From Adtran.

Fixed Port Access Router

NetVanta 3000 Series

A full-featured, low-cost access router platform that includes an integral DSU/CSU, a stateful inspection firewall, QoS for delay-sensitive traffic like VoIP, DSX port for PBX connectivity, UPSec VPN and various PPP disaster recovery options. From Adtran.

Modular Access Routers

NetVanta 3200

Standalone access router for Internet access, public and private Frame Relay, leased line connections and VPN supporting line rates from 56k to dual T1s.
From Adtran.
Part No. 1202860L1 - Chassis
Part No. 4200860L2 - Chassis with VPN
Part No. 1202870L1 - NetVanta 3205 (rackmount)

NetVanta 3448

Multiservice access router with an 8-port switch that delivers high-package throughput for IP telephony, corporate connectivity and Internet access, delivering wire-speed throughput even with advanced services like QoS, NAT, firewall and VPN.
From Adtran.
Part No. 1200821E1 - Chassis
Part No. 4200821E11 - Chassis with PoE
Part No. 4200821E2 - Chassis with VPN
Part No. 4200821E12 - PoE Chassis with VPN

NetVanta 3000 Series

A full-featured, low-cost access router platform that includes an integral DSU/CSU, a stateful inspection firewall, QoS for delay-sensitive traffic like VoIP, DSX port for PBX connectivity, UPSec VPN and various PPP disaster recovery options. From Adtran.

NetVanta 4305

Multi-slot access router for solutions requiring simultaneous corporate Frame Relay connectivity, secure Internet access and VPN from a single platform. From Adtran.
Part No. 1200890L2 - Chassis
Part No. 4200890L2 - Chassis with VPN
Part No. 4200893L1 - Chassis with Octal T1/EI Wide Module

VoIP Multiservice Access Gateways

Total Access® 900/900e Series

Offers seamless voice and data integration over VoIP-based networks. Compatible with industry-leading soft switches and call agents. The 900 Series offers a single T1 network interface and the 900e Series up to four T1s. From Adtran.

Quad T1 Radios

TRACER® 4106/4206

License-free digital microwave radios provide economical, wireless, high-capacity connectivity for service providers and corporate networks. The TRACER® 4106 operates in the 2.4 Ghz ISM band and the TRACER® 4206 in the 5.8 GHz ISM band to provide high bandwidth solutions at a significantly lower cost than competing products.
Ideal for cellular backhaul, service provider network extension, corporate networks and campus connectivity, redundant link and disaster recovery. From Adtran.

MultiService Access Point
InReach™ MAP-320

An intelligent WLAN access point with advanced management, security and networking features that enable enterprises and service providers to deploy large-scale, cost-effective Wi-Fi networks. The MAP-320 is designed to be centrally managed by the Colubris Networks Management System and integrates with existing enterprise network infrastructure and security systems for low total cost of ownership. From Colubris Networks.

Dual Radio MultiService Access Point
InReach™ MAP-330

A centrally managed secure WLAN access point with dual 802.11 a/b/g radios. It offers all the features of the MAP-320, plus the additional flexibility and performance of dual radios. Each radio can be configured to operate in access point, WLAN monitor or WDS bridge modes. When configured for simultaneous access point mode, the radios provide two channels of bandwidth in a single area using any combination of the 2.4 and 5 GHz frequency bands.
From Colubris Networks.

RF Sensor
InReach™ MAP-330

A dedicated wireless sensor based on the industry-leading InReach MAP-330 MultiService Access Point. When deployed in the WLAN, the MAP-330 Sensor works in conjunction with InCharge RF Manager to safeguard the network against a wide variety of security threats. With dual radios and two pairs of omnidirectional antennas, the unit is capable of securing a wide patch of airwave wherever it is deployed. From Colubris Networks.

Ruggedized Multiservice Access Points/Controllers
InReach™ and InMotion™

The InReach MAP-3xxR and InMotion MSC-3xxxR are ruggedized versions of the Colubris multiservice access points and controllers, designed for outdoor applications. Both include a NEMA enclosure and a complete pole/surface mounting kit. From Colubris Networks.

Wireless Access Point
InReach™ WAP-200

A fully managed enterprise-grade WLAN access point with a single 802.11 a/b/g radio. The WAP-200 is an ideal AP for service providers or enterprise customers who are deploying a single WLAN service or application. It features many of the same characteristics as the MAP-320 product, including integrated PoE, UL 2043 certification for above-ceiling installation, and support for up to two Virtual Service Communities (VSCs).
From Colubris Networks.

Wireless Client Bridge
InReach™ WCB-200

Connects legacy Ethernet and serial devices to any 802.11 WLAN with simplicity and security. It enables organizations to unwire a broad range of computing devices and realize the benefits of mobility.
From Colubris Networks.

MultiService Gateway
MGW-3500

A high capacity multiservice gateway purpose-built for hotspot and guest networking applications. It enforces subscriber service policies, reports per-user activity information to a central billing system and performs a range of critical networking functions that enable users to seamlessly access the Internet. The MGW-3500 provides location information that enable access policies to be customized per hotspot.
From Colubris Networks.

Two Radio Meshed WiFi Network
MOTOMESH™ Duo

The MOTOMESH Duo is a high performance, meshed WiFi solution designed to meet strict cost per square mile and ROI targets. The unit delivers a new level of economic flexibility and investment protection to municipalities and service providers.

Available in single or two radio configurations, MOTOMESH Duo leverages Motorola's field proven, MeshConnex™ routing engine and MeshManager™ element management system to meet the challenges of demanding multi-use networks. Its small size, minimal visual impact and low power consumption increases mounting location flexibility and enables rapid deployment.

Motorola's mesh networking technology enables users to wirelessly access broadband applications seamlessly, virtually any time and anywhere. Mesh networking technology significantly reduces the backhaul costs of wide scale networks and leverages millions of WiFi enabled devices already deployed globally.

A typical MOTOMESH Duo network solution incorporates:

- **Outdoor Intelligent Access Points** (IAPs) which act as a bridge between the wired world and wireless mesh network. The IAPs serve as a gateway for the associated Mesh Wireless Routers (MWRs) and they act as a transition point to the injection layer.
- **Mesh Wireless Routers** which extend the mesh coverage wirelessly
- **MeshManager Element Management System**, a network management application used to configure and manage MOTOMESH access points and Mesh Wireless Routers
- **MeshPlanner** software for network planning, design and optimization

MOTOMESH Duo has one of the smallest and lightest form factors in the market. At under 5 lbs with a volume approximately one eighth of a cubic foot, a single person can quickly and safely install these devices in many areas. MOTOMESH Duo unit enclosures are NE MA 4 certified (European equivalent IP66), ensuring protection against many other environmental hazards.
From Motorola.

Magnum 6K Managed Switches

6K8

6K32T

6KQ

DX40

Select the needed chassis type for your solution environment and power sourcing, then populate the chassis with any of the 10/100/1000 fiber optic and copper solutions including PoE options. Outdoor-rated switches can handle -40°C to 75°C and conformal coating is available for especially harsh environments.

Features

- Modular switches designed for vertical panel/enclosure/DIN-Rail mounting or 19/23" mounting
- AC and Multiple DC power supply options including redundant DC power sourcing
- MNS-6K SNMPv3 secure Web-based management
- Optional S-Ring software provides high speed self-healing ring solutions even with large numbers of switches and multiple vendor environments
- Industrial-class products feature -40°C to +75°C temperature tolerances and robust chassis construction
- Power Over Ethernet (PoE) modules with up to eight PoE ports in any 6K switch
- Class 1 Division 2 options for explosive environments
- MNS-6K software provides full suite of advanced SNMP monitoring, security and network performance features including QoS,VLANs, IGMP, and port mirroring-Ideal for mission critical voice, video surveillance, and industrial controls/SCADA solutions.

From GarrettCom.

Magnum Edge Switches and Converter Switches

Es42
Edge Switch

CS14H
Converter Switch

Magnum edge switches and converter switches deliver compact DIN-Rail or rack-tray mountable switched solutions in a compact package with a range of fiber optic or copper port options. Magnum media converters provide simple media conversion with the same compact size and mounting options. Outdoor-rated versions can handle -40°C to 75°C and conformal coating is available for especially harsh environments.

Features

- Compact design ideal for limited space sizes, small enclosures and special placements
- AC and multiple DC options, including redundant DC power sourcing
- Available in a range of temperature tolerances from -40°C to 75°C
- Class 1 Division 2 and conformal coating optional for hazardous or damp environments
- Fiber optic for 10 or 100 Mbps fiber media including single and multimode fiber and multiple connector options (LC, SC, ST, MTRJ). ES42 available with one or two fiber ports
- New PoE PS14P Power Source Switch allows positioning of Ethernet-powered cameras and other devices in challenging locations, including outdoors, with a minimum space usage
- Link, Loss, Learn feature in all ES42 allows for fast network ring recoveries when used with Magnum 6K managed switches

From GarretCom.

Magnum Gigabit Converter Switch

Combine a Gigabit (Gb) Fiber Media Converter and a two-port 10/100/1000 copper switch, and you have the Magnum CSG14 Converter Switch™, a new high-speed flexible edge-of-the-network industrial Ethernet product. The CSG14 family of Gb converter switches with a Gb fiber built-in offers a full range of Gb fiber port choices.
Models available provide a) fixed Gb fiber ports for short distance SX fiber, b) fixed LC-type transceivers for single-mode GB fiber, and c) SFP ports (Small Form-factor Pluggable) for flexible choices of the transceiver distance needed. The compact package is ideal for industrial network edge installations.

Three models for three application environments:

- Hardened for Factory Floor
- Premium-rated for -40° to 75°C, and outdoors
- Premium-rated with PoE on the two RJ-45 ports

From GarretCom.

Magnum Internal Power Supplies

The Magnum IPS42 chassis brings big-switch internal power supplies to compact unmanaged industrial edge switches. The AC/DC model allows the user to connect into 125VDC substation power or into worldwide AC power. Dual-source models operate from either of two DC power inputs and provide high availability. The five models of the Magnum IPS42 Internal Power Supply chassis yield a rugged Edge Switch package for mission critical industrial networking applications.

Five IPS42 models:

- Magnum AC/DC Power Model
- Magnum 125VDC Dual Source Model
- Magnum 48VDC Dual Source Model
- Magnum 24VDC Dual Source Model
- AC Power Model

From GarrettCom.

Magnum PoE Edge Switches

The Magnum PES42P Edge Switch provides six switch ports, zero or one or two of which may be 100 Mb fiber, others are 10/100 copper. Four fixed copper ports are PoE, Power Source per IEEE 802.3af. The switch and attached PoE devices are powered from an integral -48VDC terminal block. May also be ordered concurrently with IPS42 Internal Power Supplies for Edge Switches. From GarrettCom.

AmiNet Ethernet, IPTV and Set-Top Equipment from Amino

Model	IPTV Decoder	Multi Output*	Dolby 5.1	PVR Server
AmiNET110	MPEG-2	Yes	Yes	-
AmiNET125	MPEG-2 or MPEG-4 AVC (H.264)	Yes	Yes	-
AmiNET130	MPEG-2 or MPEG-4 AVC (H.264)	Yes SD, HD	Yes	-
AmiNET530	MPEG-2 or MPEG-4 AVC (H.264)	Yes SD, HD	Yes	Yes
AmiNET110H†	MPEG-2	Yes	Yes	-
AmiNET130H†	MPEG-4 AVC (H.264)	Yes SD, HD	Yes	-

**Unless stated, products with multi-output capability support choice of RF, composite, S Video or component outputs. Product data sheets available.*
†Hospitality, education and enterprise products

AmiNET110 Compact STB

A premium compact MPEG-2 set-top box (STB) for IPTV and video on demand applications. Features Ethernet input and flexible audio/video output and S/P-DIF and a RF Modulator output. A USB interface is provided to support such functionality as game controllers.

AmiNET125 Series

A multi-codec unit designed for IPTV, Internet TV and video on demand applications. An advanced, low-cost chipset includes a combined programmable codec DSP and host processor.

AmiNET130 Series

Offers the service provider with a cost-effective means to deliver end-to-end digital High Definition (HD) TV as multicast, video on demand and multi-room IPTV services.

AmiNET500

Creates additional revenue opportunities for the operator by supporting advanced IPTV functionality such as PVR, pause-live-TV and pushed content models. This advanced interactive IPTV STB includes the ability to view recorded content either locally or via other connected STBs in the home. It also combines the benefits of low bit rate codecs including MPEG-4 AVC (H.264) and offers the user the ability to drive HD displays via analogue and HDMI.

AmiNET110H

Offers the functionality of the AmiNET110 in a robust, bolt-down chassis ideal for enterprise, education and hospitality use. Where a completely non-visible installation is required, the AmiNET110H has a connection for a compact remote IR sensor. Compatible with the SmartPort and MPI interfaces.

AmiNET130H

An Ethernet STB with AVC and HD support for premium guest room applications. The AmiNET130H is the first hospitality single chip STB that supports HD TV output and low bitrate codecs.

HD IP Video Set-Top Boxes from Motorola

VIP1200

VIP1200

The Motorola VIP1200 is a compact, high-definition (HD) television set-top box (STB) that also supports HD and standard-definition (SD) digital video. Its two-way IP capacity allows it to be used in multiple applications, including multicast and VoD, and can support multiple middleware software solutions. The unit includes a high-end microprocessor and enhanced graphics to decode HD and SD digital TV, as well as output high-quality surround sound audio.

VIP1216

Same features and functionality as the VIP1200, plus a built-in hard disk drive for digital video recording (DVR) functionality.

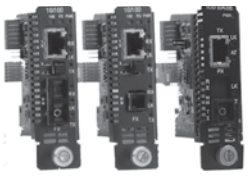
HD IPTV Receiver
Amulet™ HD

A cost-effective and compact multifunctional IPTV receiver that integrates easily with popular home-networking and broadand services. Amulet HD not only functions as an IPTV set-top box (STB), but also can provide over-the-air digital HDTV reception, even in areas with network limitations. Includes an optional integrated digital video recorder (DVR) and optional ATSC/QAM tuner or DVB-T/DVB-C tuner. From entone.

IP Video Gateway
Hydra™ HD

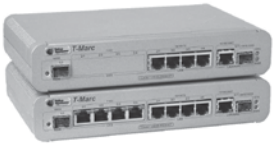
An integrated device that supports simultaneous decoding and display of three video streams via a single Ethernet or HPNA Connection, the Hydra HD is a low-cost CPE solution for sharing the electronics across multiple televisions and using the existing home wiring. The unit offers modular digital video recorder (DVR) capability and an RF remote for viewing controls throughout the entire home. From entone.

AutoTwister® Media Converter



Versatile platform for upgrading 10/100Mbps Ethernet to fiber optics. The AutoTwister provides media conversion and 10/100 rate adaptation in a single unit, extending copper-based networks up to 100km over single mode fiber. From Telco Systems.

T-Marc® Ethernet Demarcation Gateways



This versatile family of cost-effective, fully-managed Fast and Gigabit Ethernet demarcation gateways provides service termination and demarcation over service providers' packet-based networks. Standards-based features offer extensive end-to-end Operation Administration and Maintenance (OAM) capabilities, such as performance monitoring, fault propagation and loop and remote failure indications. T-Marc fills service providers' requirements for multi-service, multi-application, multi-site and multi-carrier SLA enforcement. From Telco Systems.

T5 Compact™ Ethernet Switches

The T5 Compact 10/100/1000 Ethernet switch line provides high-performance in a super-compact package. Only one rack unit in height, the units have the capacity of physically larger backbone switches at price points associated with workgroup switching. The T5 Compact offers a unique, standard-based (IEEE 802) solution, with a switch recovery time, for link or switch failure, of less than 50ms and also minimizes core router re-convergence requirements. From Telco Systems.

Compact 8-Port Unmanaged Switch

The 8-port 10/100/1000BASE-T Switch with Auto MDI/MDIX is an unmanaged multi-port switch that can be used to build high-performance switched networks. The unit is a store-and-forward device that offers low latency for high-speed networking. Designed for the core of the network backbone computing environment to solve traffic block problems at SME (small, medium enterprise) businesses. Includes an internal power supply. From Transition Networks.

Compact 8-Port Managed All-Copper Switch

The MIL-SM800P series of layer 2 managed switches provides high performance non-blocking switching. The switch has eight 10/100 auto-MDI/MDIX ports.

Two priority queues per port insure minimum delay for voice over IP or multimedia network data. Console port provides local management while Telnet and Web-base management is provided via any network device. Non-blocking 1.8Gbps architecture assures rapid packet delivery while 8,000 MAC address table provides swift lookup and packet forwarding.

Other ASIC features that enhance performance are included such as 802.1d spanning tree, 802.3x flow control, 802.1ad link aggregation and broadcast storm control. From Transition Networks.

Single Port ADSL2+ Modem
Model 6211

Single port, 10/100, ADSL2+ modem for residential applications. Supports PPPoA, PPPoE, RIPv1, 2, firewall inspection, USB. From Zhone.

Four Port ADSL2+ Modem
Model 6218-12

Four 10/100Bt ports with 802.11g Wi-Fi support. RJ-11 port, ADSL2+, simultaneous bridge/route on individual 10/100BT ports. From Zhone.

ADSL/R Bridge/Router
Model 6381

Supports both Zhone ReachDSL and ADSL2+; attempts a ReachDSL connection first and if unsuccessful, switches to ADSL mode. Single 10/100BT port. From Zhone.

Compact ADSL2+ Modem
Model 6000

ProLine compact ADSL2+ modem. Manageable and delivers up to 24 Mbps throughput. From Westell.

ProLine Compact ADSL2+ Modem
Model 6110

Manageable and delivers up to 24Mbps throughput. Also includes USB. From Westell.

DSL/Multiport Router
Model 7400

Features per port QoS for wired networking and video applications. From Westell.

Compact Single Port ADSL Modem
Model CT-5071

For residential application with routing capabilities. From Comtrend.

4-Port ADSL2+ Router
Model CT-5621

ADSL2+ router with four Ethernet ports and USB. Residential gateway can operate in bridge or router mode, allowing multiple computers simultaneous Internet access. From Comtrend.

Media Converters
from Transition Networks

Fast Ethernet to Fiber Optic

For conversion from 100BASE-TX (RJ-45) to single mode or multi-mode fiber. Available in ST, LC and SC versions with SR, IR and LR optics. Chassis mount version also available.

Gigabit Ethernet to Fiber Optic

- Gigabit 1000BASE-T (RJ-45) to 1000BASE-SX/LX
- Single mode or multimode fiber, SC or LC, with short reach to long reach optics
- Available in chassis mount version

T1/E1 Copper to Fiber

- Can be remotely managed when used in conjunction with the chassis system
- Twisted pair (RJ-48) to SM or MM fiber, SC or ST
- Also available in 1x4 DS1 and in a single fiber version

DS3-T3/E3 Coax to Fiber

For DS3 extensions in multi-building applications or to a remote location up to 80 km. Coax (2 ports) to SM or MM fiber, SC or ST.

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